

Abstract

The invention concerns a kinematic device for supporting and programmably moving a terminal element. The platform (11) bearing the terminal element (12) is linked by four swivel joints (9) and (10) with two legs each consisting of two support rods (7) or (8) forming deformable parallelograms mounted each on slides (3) or (4) mobile in the x direction. The pivot plate (29) articulated on the platform (11) about the hinge pin (30) is controlled by the control rods (27), controlling pivoting (14) and lateral displacement (18) connected respectively by the swivel joints (26, 13 and 17) to the slides (3, 12 and 26). It consists in a parallel kinematics with four degrees of freedom, namely three translational and one rotational whereof the angle can be greater than 120°.